

1 HANSON BRIDGETT LLP  
KURT A. FRANKLIN, SBN 172715  
2 kfranklin@hansonbridgett.com  
SAMANTHA WOLFF, SBN 240280  
3 swolff@hansonbridgett.com  
JENNIFER ANIKO FOLDVARY, SBN 292216  
4 jfoldvary@hansonbridgett.com  
425 Market Street, 26th Floor  
5 San Francisco, California 94105  
Telephone: (415) 777-3200  
6 Facsimile: (415) 541-9366

7 HANSON BRIDGETT LLP  
TYSON M. SHOWER, SBN 190375  
8 tshower@hansonbridgett.com  
LONDON D. BAILEY, SBN 240236  
9 lbailey@hansonbridgett.com  
500 Capitol Mall, Suite 1500  
10 Sacramento, California 95814  
Telephone: (916) 442-3333  
11 Facsimile: (916) 442-2348

12 OTTEN LAW, PC  
VICTOR OTTEN, SBN 165800  
13 vic@ottenlawpc.com  
KAVITA TEKCHANDANI, SBN 234873  
14 kavita@ottenlawpc.com  
3620 Pacific Coast Highway, #100  
15 Torrance, California 90505  
Telephone: (310) 378-8533  
16 Facsimile: (310) 347-4225

17 Attorneys for Plaintiffs  
CORY SPENCER, DIANA MILENA  
18 REED, and COASTAL PROTECTION  
RANGERS, INC.  
19

20 **UNITED STATES DISTRICT COURT**  
21 **CENTRAL DISTRICT OF CALIFORNIA, WESTERN DIVISION**  
22

23 CORY SPENCER, an individual;  
24 DIANA MILENA REED, an  
individual; and COASTAL  
25 PROTECTION RANGERS, INC., a  
26 California non-profit public benefit  
corporation,

27 Plaintiffs,  
28

CASE NO. 2:16-cv-02129-SJO (RAOx)

**EXPERT DECLARATION OF PETER  
NEUSHUL IN SUPPORT OF  
PLAINTIFFS' MOTION FOR CLASS  
CERTIFICATION**

Judge: Hon. S. James Otero  
Date: February 21, 2017  
Time: 10:00 a.m.  
Crtrm.: 10C

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v.

LUNADA BAY BOYS; THE INDIVIDUAL MEMBERS OF THE LUNADA BAY BOYS, including but not limited to SANG LEE, BRANT BLAKEMAN, ALAN JOHNSTON AKA JALIAN JOHNSTON, MICHAEL RAE PAPAYANS, ANGELO FERRARA, FRANK FERRARA, CHARLIE FERRARA, and N. F.; CITY OF PALOS VERDES ESTATES; CHIEF OF POLICE JEFF KEPLEY, in his representative capacity; and DOES 1-10,

Defendants.

I, Peter Neushul, declare as follows:

1. I was a visiting history professor at the University of California, Santa Barbara (“UCSB”) for a 15-year period. I have taught a course entitled “History of Surfing” from 2008 to 2012. I wrote a book on the history of surfing entitled “The World in the Curl: An Unconventional History of Surfing” with Peter Westwick, which was published in 2013 by Crown Publishers, a division of Random House. I have written several articles on surfing, including “Aerospace and Surfing: Connecting to California Keynotes” in 2012, “1987-2015 Surfing Takes Off: The Boys (And Girls) of Summer” in 2016, “Blowing Foam and Blowing Minds: Better Surfing through Chemistry” in 2016, and “Is There Surf? Wave Forecasting and Wave Riding,” forthcoming. I have studied the history of surfing, the surf community, and contemporary issues in surfing. I am also a surfer myself, having grown up in Santa Barbara. I started surfing when I was eight years

1 old and have surfed for more than 45 years.

2 2. I am an expert on surf history generally, surf culture generally,  
3 surfing rules, and both California surf history and culture. I have studied  
4 surfing's explosion in popularity and the increased number of people who  
5 seek to surf. Related, I've studied localism and beaches known to be "for  
6 locals only."

7 3. I earned my bachelor's degree in history from UCSB in 1983, my  
8 master's degree in history from UCSB in 1986, and my doctorate degree in  
9 history from UCSB in 1993. A true and correct copy of my curriculum vitae  
10 is attached hereto as **Exhibit 1**.

11 4. Modern surfing originated in Hawaii, and it was brought to the  
12 mainland by Hawaiians. George Freeth, who was one-quarter Hawaiian,  
13 visited California beginning in 1907 to promote surfing and Hawaiian  
14 tourism. He gave surfing demonstrations as the "Hawaiian Wonder" and the  
15 "Man Who Walks On Water." Duke Kahanamoku, a native Hawaiian who  
16 grew up surfing, later brought more attention to surfing to the mainland.  
17 Kahanamoku first gained notice as a swimmer, and he won medals at the  
18 1912, 1920, and 1924 Olympics, including gold in the 100-meter freestyle in  
19 1912 and 1920. With his new fame, Kahanamoku toured the United States,  
20 giving surfing demonstrations and appearing in Hollywood movies. During  
21 this period, swimming was increasingly promoted as a form of exercise for  
22 desk-bound middle-class workers.

23 5. The evolution of the surfboard itself has roots in Southern  
24 California. The surfboards used in the early 20th century were made of  
25 redwood and could weigh over a hundred pounds, making them difficult to  
26 use. Surfers began experimenting using lighter balsa wood and drilling  
27 hollow boards. An even lighter surfboard featuring internal ribs topped by a  
28 plywood sheath is credited to Tom Blake, a surfer who moved from the

1 Midwest to Los Angeles and his connections with an engineer at the  
2 California Institute of Technology (“Caltech”). A Caltech student, Robert  
3 Simmons, later created a hybrid board using Styrofoam, balsa rails, and a  
4 plywood veneer sealed with fiberglass and resin. With the advent of  
5 cheaper, lighter polyurethane foam boards in the 1950s, surfing became  
6 more accessible to the masses.

7         6. During the 1950s and 1960s, Hollywood contributed to the  
8 growing interest in surfing and featured surfing in movies such as “Gidget”  
9 and its sequels, the “Beach Party” series with Frankie Avalon and Annette  
10 Funicello, and “The Endless Summer.” Bands including the Beach Boys  
11 also promoted the fun lifestyle associated with surfing.

12         7. However, surfing wasn’t encouraged for everyone, and  
13 exclusionary practices towards African-Americans extended to the beach. In  
14 Southern California, for example, cities took measures to keep African-  
15 Americans from the beach. For example, I know that the City of Palos  
16 Verdes Estates had a covenant that forbade home owners to sell or rent a  
17 house to anyone who was not white or Caucasian or to allow African-  
18 Americans on their property, with the exception of chauffeurs, gardeners,  
19 and domestic servants. Just north of Palos Verdes Estates, the City of  
20 Manhattan Beach used eminent domain to evict African-Americans from a  
21 beachfront neighborhood known as Bruce’s Beach. Given the hostility  
22 displayed towards them elsewhere, African-Americans began surfing at a  
23 polluted beach in Santa Monica, which later became known as the Ink Well.  
24 Back in the 1970s, as today, few African-Americans surf. In fact, 58 percent  
25 of African-American children do not know how to swim, compared to 31  
26 percent of white children and 56 percent of Hispanic children, according to a  
27 2008 study conducted by USA Swimming.

28

1           8.     As surfing grew in overall popularity and accessibility, surfing  
2 competitions made it possible to become a professional surfer. The U.S.  
3 Open of Surfing, which is held in Huntington Beach, California every year,  
4 was first held in 1959 and continues to this day. Hawaii and Australia also  
5 host surfing competitions that draw the best international surfers. Surfing  
6 will be included for the first time as a medal sport in the Olympic Games in  
7 2020 in Tokyo, Japan.

8           9.     Surfing has informal rules and protocol, which are intended to  
9 enhance safety and ensure predictability. For example, surfers waiting their  
10 turn to take a wave are formed in a “lineup,” a line of surfers parallel to the  
11 waves. Generally, the first surfer closest to the curl of the wave has the right  
12 of way. No surfer should “drop in on” another surfer taking a wave or, in  
13 other words, try to take their wave by paddling into a wave where the other  
14 surfer has the right-of-way and is already up surfing because it would be  
15 potentially dangerous for both surfers if they collide. In addition, surfers are  
16 expected to paddle around, not through, the lineup to get to and from the  
17 shore. Further, surfers paddling out should avoid getting in the way of  
18 someone already riding a wave.

19          10.    Surfing etiquette dictates that surfers refrain from hogging waves  
20 and that they take turns. In particular, surfers are admonished not to  
21 “snake” or make an “S” around a surfer in the lineup in order to cut to the  
22 front of the line. Surfers are expected to show general respect for each  
23 other and to the beach.

24          11.    Safety in the water is paramount. Surfers should not put other  
25 surfers in danger.

26          12.    I am familiar with many of the surfing beaches in Palos Verdes  
27 Estates throughout the City’s 4.5 miles of public coastline. For Los Angeles  
28 County, many of the City’s beaches are unique in that many are rock-reef

1 point breaks. From north of Palos Verdes Estates, moving south, the better  
2 known surfing breaks on the City's shoreline are: (a) Lower Haggerty, (b)  
3 Exiles, (c) Upper Haggerty, (d) Palos Verdes Cove, (e) Ski Jump, (f) Little  
4 Reef, (g) Little Queens, (h) Middles, (i) Bone Yards, (j) Indicator, (k)  
5 Charlie's, (l) Turbos, (m) Charlie's Point, (n) Pipes, (o) TA's, (p) Ganja's, (q)  
6 Dominators, (r) Truck Drivers, (s) Lunada Bay, also known as Palos Verdes  
7 Point, or the Point, (t) Avalanche, and (u) Wally's. These beaches may be  
8 accessed by trail, by shoreline during low tides, and by boat. However, the  
9 signage to these beaches is poor or non-existent. Similarly, the pathways  
10 and trails to the beaches are not well marked.

11 13. Of these waves, Lunada Bay is one of the best known big-swell  
12 waves. It has outstanding right-breaking rock-reef point-break type waves  
13 that (a) can handle a large swell and (b) can break with a hollow tube.  
14 These make for prime surfing conditions. In addition, the sheer cliffs,  
15 pristine shoreline, and tidepool areas are known for their beauty. To access  
16 Lunada Bay, there are two main trails down cliffs that descend more than  
17 100 feet. While on City property, both are steep, but like the other beach  
18 trails in Palos Verdes Estates, they're not marked.

19 14. Localism can be a problem at certain surf spots. The issue is  
20 that surfers ideally like to ride each wave by themselves to the exclusion of  
21 visitors whom they do not know. When there are a limited number of waves,  
22 but large crowds of surfers want to ride them, some will be left frustrated.  
23 Even though a complicated set of informal rules and hierarchies govern the  
24 order in which surfers can take a wave, some surfers get impatient and  
25 greedy. These local surfers might act out by giving hard-and-threatening  
26 looks intended to encourage people to leave and/or verbally harass non-  
27 locals. But localism can escalate to include illegal activity like blocking trail  
28 access, vandalizing non-locals' vehicles, or, on certain occasions, throwing

1 rocks at non-locals or getting into physical altercations. Further, locals may  
2 act out in the water by dropping in on visiting surfers putting them in danger,  
3 attempting to run over visiting surfers, blocking visiting surfers from catching  
4 waves, pulling the leg ropes (leashes) of visiting surfers so they will miss  
5 waves, shooting surfboards at visiting surfers, fighting visiting surfers,  
6 provoking visiting surfers to engage in a fight, and threatening visiting  
7 surfers' safety.

8 15. Localism and surf gangs are known to exist throughout the  
9 world, including Maroubra, near Sydney, Australia where the Bra Boys are  
10 known to harass visitors and the North Shore of Oahu, Hawaii, the historical  
11 home of Da Hui, the "North Shore mafia" or "Black Shorts."

12 16. Throughout the surf community, the City of Palos Verdes Estates  
13 has the reputation of not taking complaints against the Bay Boys seriously  
14 and allowing its beaches to become too exclusive for locals' use only. By  
15 reputation, the City of Palos Verdes Estates allows illegal exclusivity and  
16 has done nothing to stop the Bay Boys for decades.

17 17. Today, Lunada Bay in Palos Verdes Estates is known as one of  
18 the most localized surf spots in the world. Lunada Bay is home to one of the  
19 few big-wave spots in Southern California and can have waves of up to 20-  
20 feet-high. Particularly when the swells get big, which is generally from  
21 November to March, the locals known as Bay Boys threaten visiting  
22 beachgoers who try to go to Lunada Bay. A 1995 lawsuit against a Bay Boy  
23 resulted in a restraining order and City promises to police the area and  
24 protect it for visitors. But, several years later, the Bay Boys were back to  
25 assaulting non-local surfers.

26 18. Because of its reputation, most non-City-residents and visiting  
27 surfers avoid Lunada Bay. This is because the Bay Boys' efforts to  
28 discourage visitors from coming to Lunada Bay is a deterrent. Indeed, while

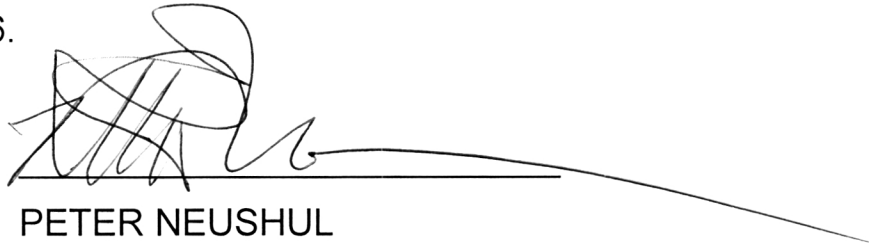


1 | it's a prized wave, Lunada Bay is known to only have a few surfers using it.

2 | 19. I have long known of the reputation of the Bay Boys as a  
3 | longtime resident of Southern California, surfer, and a surf historian. The  
4 | locals at Lunada Bay have also harassed my family members, including my  
5 | brother, Stephen Neushul. See Declaration of Stephen Neushul.

6 |  
7 | I declare under penalty of perjury under the laws of the United States  
8 | of America that the foregoing is true and correct.

9 | Executed in SANTA BARBARA, California on December 23,  
10 | 2016.

11 |   
12 | \_\_\_\_\_  
13 | PETER NEUSHUL



# Exhibit 1

PETER NEUSHUL

Department of History  
University of California  
Santa Barbara, CA 93116  
Tel. 805-968-4153  
Email: pneushul@cox.net

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**Teaching Fields:**

History of Technology, History of Science, Environmental History

**Education:**

B.A. in History, University of California at Santa Barbara, 1983

M.A. in History, University of California at Santa Barbara, 1986

Ph.D. in History, University of California at Santa Barbara, 1993

Examinations in US History/Environment, History of American Technology, History of Science, and Marine Biology

Dissertation: *Science, Technology, and the Arsenal of Democracy: Production Research and Development during WW II*

**Teaching Experience:**

Teaching Assistant, Department of History, UCSB

History 17A,17B,17C "American Survey Course", 1986-1987

History17A and History173S "U.S. Popular Cult. Hist.", 1987-1988

History 78 and History178 "American Urban History", 1989

History 4C "Western Civilization", 1989, 1991, 1992

History 178M "American Urban Crime", 1992

Teaching Assistant, Department of Environmental Studies, UCSB

Social Environment, 1992

Visiting Professor, Department of History, UCSB

History of US Science and Technology Policy, 1993

Visiting Professor, Environmental Studies Program, UCSB

US Environmental History, 1993

Visiting Professor, Department of History, UCSB

History of US Science and Technology Policy, 1995

Visiting Professor, Humanities and Social Sciences, California Institute of Technology

History of Environmentalism, 1997

Visiting Professor, Department of History, UCSB

History of US Science and Technology Policy, 2000

Adjunct Professor, Department of History, Santa Barbara City College

United States History, 2002-2003

Visiting Professor, Department of History, UCSB

History of US Science and Technology Policy, 2003-2008

Visiting Professor, Department of History, UCSB

History of Surfing, 2008-

---

**Articles Published:**

- “Love Canal Revisited, *Discovery: UCSB Journal of Undergraduate Research*, 6 (1983), 119-134.
- “Love Canal: A Historical Review,” *Mid-America: An Historical Review*, 69 (1987), 125-138.
- “Energy from Marine Biomass: The Historical Record,” in K. T. Bird and P. H. Benson (eds.), *Seaweed Cultivation for Renewable Resources* (Amsterdam: Elsevier, 1987), pp. 1-37.
- “Seaweed for War: California’s World War I Kelp Industry,” *Technology and Culture*, 30 (1989), 561-83.
- “Explorers 7, 11, 23, 37, 38, 42, 44, 48, 49, 53: Astronomy Explorers, in F. N. Magill (ed.), *Magill’s Survey of Science: Space Exploration Series* (Pasadena: Salem Press, 1989), pp. 407-12.
- “Howard Florey and Ernst Chain Develop Penicillin as an Antibiotic in England,” in F. N. Magill (ed.), *Great Events from History: Science and Technology Series* (Pasadena: Salem Press, 1991), pp. 1171-75.
- “Alexander Fleming Discovers Penicillin in Molds,” in F. N. Magill (ed.), *Great Events from History: Science and Technology Series* (Pasadena: Salem Press, 1991), pp. 873-77.
- “Synthetic Rubber,” in S. Woodyard (ed.), *Magill’s Survey of Science: Applied Science* (Pasadena: Salem Press, 1992), pp. 2601-08.
- “The Present and Future Uses of California’s Marine Plant Resources,” in W. S. Leet, C. M. Dewees, and C. W. Haugen (eds.), *California’s Living Marine Resources* (Davis, CA: California Sea Grant, 1992), p. 6.
- “Science, Government, and the Mass Production of Penicillin,” *Journal of the History of Medicine and Allied Sciences*, 48 (1993), 371-95.
- “Marie C. Stopes and the Popularization of Birth Control Technology,” *Technology and Culture*, 32 (1998), 245-72.
- “Sir Alexander Fleming,” in Richard Olson, (ed.), *The Biographical Encyclopedia of Scientists* (New York: Marshall Cavendish Corp., 1998), pp. 1317-19.
- “Selman Abraham Waksman,” in Richard Olson, (ed.), *The Biographical Encyclopedia of Scientists* (New York: Marshall Cavendish Corp., 1998), pp. 1317-19.
- “Andrew Jackson Higgins and the Mass Production of World War II Landing Craft,” in *Louisiana History* 39 (1998), 133-66.
- “Ocean Food and Energy from California Mariculture: An Evaluation of the US Marine Biomass Project from 1972 to 1986,” in K. Benson and F. Rehbock (eds.), *Oceanographic History: The Pacific and Beyond* (Washington University Press, 2002), pp. 433-444.
- “Alexander Fleming,” in Arne Hessenbruch (ed.), *Reader’s Guide to the History of Science* (Fitzroy Dearborne Publishers, 2000).

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**Articles: (cont.)**

“Howard Walter Florey,” in Arne Hessenbruch (ed.), *Reader’s Guide to the History of Science* (Fitzroy Dearborne Publishers, 2000).

“Fighting Research: Army Participation in the Clinical Testing and Mass Production of Penicillin During World War II,” in Roger Cooter, Mark Harrison, and Steve Sturdy (eds.), *War Medicine, and Modernity, 1860-1945* (Sutton, 1998), pp. 203-24.

“Harvesting the Pacific: The Blue Revolution in China and the Philippines,” *Osiris* 13 (1998), 186-213.

“With the Marines at Tarawa,” *U.S. Naval Institute Proceedings* 125 (April 1999), 74-79.

“Love Canal,” in Craig W. Allin (ed.), *Encyclopedia of Environmental Issues* (Salem Press, 2000).

“Gibb, Lois,” in Craig W. Allin (ed.), *Encyclopedia of Environmental Issues* (Salem Press, 2000).

“Italian dioxin release (1976),” in Craig W. Allin (ed.), *Encyclopedia of Environmental Issues* (Salem Press, 2000).

“Passenger Pigeon,” in Craig W. Allin (ed.), *Encyclopedia of Environmental Issues* (Salem Press, 2000).

“The Cloning of Man? An Opportunity Missed?,” *Bioscience* (submitted, under revision).

“Between the Devil and the Deep Sea: C. K. Tseng and the Development of Marine Science and Technology in Modern China,” *Isis* 91 (2000), 59-89.

“Marine Biomass Energy,” in John Everett and Mark Chandler, (eds.), *United Nations Atlas of the Oceans* (United Nations, 2002), <http://www.oceansatlas.org/index.jsp>

“Antarctica Beneath the Ice: Marine Botany in the Polar Region,” in Keith R. Benson and Helen M. Rozwadowski, (eds.), *Extremes: Oceanography’s Adventures at the Poles* (Science History Publications, 2007), pp. 227-46.

“Aerospace and Surfing: Connecting to California Keynotes,” in Jansson Volker, ed., *Minds and Matters: Technology in California and the West*, (University of California Press, 2012).

“1987-2015 Surfing Takes Off: The Boys (And Girls) of Summer,” in Jim Heiman, ed., *Surfing 1778-2015*, (Tashen, 2016). pp. 488-582.

“Blowing Foam and Blowing Minds: Better Surfing through Chemistry,” in David Kaiser and Patrick McCray, eds., *Groovy Science* (University of Chicago Press, 2016).

“Is there Surf? Wave Forecasting and Wave Riding,” in Anita Guerrini and Helen Rozwadowski, eds., *American Oceanography at Mid-Century* (Oregon State University Press) forthcoming.

**Book Reviews Published:**

A. Constandina Titus, *Bombs in the Backyard: Atomic Testing and American Politics*, in *Journal of the Southwest*, 33 (1991), 253-55.

Lillian Hoddeson, Paul W. Henriksen, Roger A. Meade, and Catherine Westfall, *Critical Assembly: A Technical History of Los Alamos During the Oppenheimer Years, 1943-45*, in *Physics Today*, 47 (1994), 92-93

James R. Hansen, *Spaceflight Revolution: NASA Langley Research Center From Sputnik to Apollo*, in *The Public Historian*, 18 (1996), 70-72.

Margaret W. Rossiter and Clark A. Elliot (eds.), *Science at Harvard University*, in *Archives internationales d'histoire Des Sciences* 46 (1996), 194-95.

Andrew Russel, Elisa J. Sobo, and Mary S. Thompson (eds.), *Contraception Across Cultures: Technologies, Choices, Constraints*, in *Technology and Culture*, 42 (2001), 575-76.

Daniel Greenberg, *Science, Money, and Politics: Political Triumph and Ethical Erosion*, in *American Scientist*, 90 (2002), 87-88.

David M. Hart, *Forged Consensus: Science, Technology, and Economic Policy in the United States, 1921-1953*, in *Isis*, 91 (2000), 207-08.

Nelly Oudshoorn, *The Male Pill: A Biography of a Technology in the Making*, in *Technology and Culture*, 47 (2006), 688-90.

Mark D. Bowles, *Science in Flux: NASA's Nuclear Program at Plum Brook Station 1955-2005*. *Isis* 99 (2008), 866-867.

**Books:**

*Arsenal of Democracy: Science and Technology on the Home Front* (in progress).

*A History of the Southwestern Division of the US Army Corps of Engineers 1986-1994* (US Army Corps of Engineers, 1998).

*An Era of Change: The Tulsa District of the U.S. Army Corps of Engineers 1971-1996* (US Army Corps of Engineers, 2009).

*A History of the Los Angeles District of the U.S. Army Corps of Engineers 1965-1994* (forthcoming).

*A History of the Galveston District of the U.S. Army Corps of Engineers 1986-1996* (forthcoming).

*The World in the Curl: An Unconventional History of Surfing* (Random House, 2013)

*A History of the Institute for Water Resources, U.S. Army Corps of Engineers* (forthcoming).

---

**Papers Presented:**

- American Society for Ethnohistory Conference, Berkeley: 1988  
“Use of Marine Plants by Native Americans along the Pacific Coast.”
- West Coast History of Science Society, Monterey: 1988  
“Seaweed for War: California’s World War I Kelp Industry.”
- Social Process Research Institute’s Gender Research Group, UCSB: 1989  
“Marie C. Stopes and the Technology of Birth Control.”
- Second International Congress on the History of Oceanography, Hamburg and Munich: 1989  
“Harvesting the Sea: California’s Alginates Industry.”
- UCSB History of Science Colloquium: 1989  
“The WW II Office of Production Research and Development.”
- Society for the History of Technology, Sacramento: 1989  
“Marie C. Stopes and the Development of Birth Control Technology.”
- National Research Council (National Academy of Sciences), Washington, D.C.: 1989  
“Workshop on Ocean Farming/Global Change Issues: “The History of Ocean Farming.”
- West Coast History of Science Society, Morro Bay: 1990  
“Harvesting the Sea: California’s Alginates Industry.”
- Beckman Center for the History of Chemistry, Philadelphia: 1991  
“Government, Science, and the Mass Production of Penicillin.”
- West Coast History of Science Society: 1992  
“Government, Science, and the Mass Production of Penicillin.”
- Fifth International Congress on the History of Oceanography: 1993  
“Ocean Food and Energy from California Mariculture: An Evaluation of the US Marine Biomass Project from 1972 to 1986.”
- UCSB History of Science Colloquium: 1994  
“The Landing Craft Case: The Truman Committee and World War II Technology Policy.”
- Society for the Social History of Medicine Silver Jubilee Conference, Wellcome Institute for the History of Medicine: 1995  
“Medicine and the Military: The Penicillin Story.”
- Western Society of Naturalists, 76<sup>th</sup> Annual Meeting, Port Townsend, Washington: 1996  
“An Historical Perspective on the California Kelp Industry and Kelp Ecology.”
- American Society for Environmental History, Biennial Meeting, Baltimore, Maryland: 1997  
“Getting the Lead Out: Clair C. Patterson and the Fight to Remove Tetraethyl Lead from Gasoline.”
- History of Science Society, San Diego: 1997  
“Between the Devil and the Deep Sea: C. K. Tseng and the Development of Marine Science and Technology in Modern China.”
- XVIth International Seaweed Symposium, Cebu City, Philippines: 1998  
“C.K. Tseng and the Maricultural Revolution in China.”
- UCSB History of Science Colloquium: 2000  
“Claire C. Patterson and the Removal of Tetraethyl Lead from Gasoline.”
- Dibner Center, Massachusetts Institute of Technology: 2004  
“Marine Biology, Mariculture, and the Blue Revolution.”
- Maury IV Workshop: History of Polar Oceanography, Barrow, Alaska: 2004  
“Diving Antarctica: Marine Botany in the Polar Region.”
- History of Science Society, Austin: 2004  
“World War II War Production at Caltech: The Rocket Program.”

**Papers Presented: (cont.)**

Huntington Library, Pasadena: 2009

“Aerospace and Surfing: Connecting two California Keynotes.”

Princeton University: 2011 Groovy Science: The Counter-Cultures of Scientific Life, 1955-1975

“Blowing Foam and Blowing Minds: Better Surfing through Chemistry.”

History of Science Society, Boston: 2013

“Surf’s up . . . forever! In Wave Pools.”

**Research Experience:**

Research Assistant to Dr. Lawrence Badash, Professor of History of Science, UCSB: 1985-1988

Research Assistant to Dr. Lawrence Badash and Dr. Walter Kohn (Nobel Laureate),

Professor of Physics, UCSB: 1986-1988

Archivist employed by the Smithsonian Institution’s National Air and Space Museum to

Build a computer database cataloging papers of Dr. George E. Mueller, Director of NASA’s

Office of Manned Space Flight: 1987

Reader, Huntington Library in San Marino, CA: 1988-

Postdoctoral Researcher employed by the California Coastal Commission to build a computer

database on wetlands in the Southern California Bight: 1994-1995

Partner, Graves and Neushul Historical Consultants, 1994-

Visiting Researcher, University of California at Santa Barbara, 1994-

Visiting Researcher, California Institute of Technology, Assistant to Dr. Daniel J. Kevles, 1995-1999

Visiting Researcher, California Institute of Technology Archives, 1999-2001

**Consulting Experience:**

Graves and Neushul Historical Consultants, 1994-

Consultant to PHR Environmental Consultants, Inc., 1997-2000

Consultant and expert witness on asbestos related industrial and medical history, 2001-

**Awards (received while at):**

University of California at Santa Barbara

UCSB Athletic Scholarship, 1979-1983

Offerman Scholarship, 1983

Grant from the University of California’s University-wide Energy Research Group, 1984-1985

UCSB Graduate Division Humanities Research Grant, 1987-1988

Huntington Library Fletcher Jones Fellow, 1989-1990

UCSB Graduate Division Humanities Research Grant (declined), 1989-1990

University of California’s Institute on Global Conflict and Cooperation (IGCC) Dissertation

Fellowship, 1989-1991

Harry S. Truman Library Institute Grant, 1990-1991

Franklin and Eleanor Roosevelt Institute Grant, 1990-1991

Beckman Center for the History of Chemistry Travel Grant, 1991

Postdoctoral Grant from the University of California’s University-wide Energy Research Group, 1992-1993

Postdoctoral Grant from the University of California’s Pacific Rim Research Program, 1993-1995

Postdoctoral Grant from the California Coastal Commission, 1994-1995

UCSB Honors Teaching Grant, 1993

Book Contract, U.S. Army Corps of Engineers, Southwestern Division, 1994-1997

Research Grant, Wellcome Institute for the History of Medicine, 1995



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**Awards, cont.**

Book Contract, U.S. Army Corps of Engineers, Los Angeles District, 1997-2000  
Book Contract, U.S. Army Corps of Engineers, Tulsa District, 1997-  
Book Contract, U.S. Army Corps of Engineers, Galveston District, 1999  
Interview Contract, U.S. Army Corps of Engineers, Southwestern Division, 2002  
Postdoctoral Grant from the History Associates, Department of History, UCSB, 2002  
Postdoctoral Grant, National Endowment for the Humanities, Department of History, UCSB, 2003-  
Derek Price/Rod Webster Prize, History of Science Society, 2003  
Book Contract, U.S. Army Corps of Engineers, Headquarters, 2005-2012  
Book Contract, Random House, 2010-2013  
Book Contract, U.S. Army Corps of Engineers, Institute for Water Resources, 2012-

**Activities:**

Selected as an NCAA All-American in water polo, 1981-1982  
Member of US National Water Polo Team, 1983-1984  
Executive Assistant to the Director of the Summer Seminar on Global Security and Arms Control,  
University of California's Institute on Global Conflict and Cooperation (IGCC), 1985-1986  
Fellow at the 1988 IGCC Summer Seminar on Global Security and Arms Control, 1988  
Head Coach, UCSB Women's Water Polo Team, 1991-1992  
President, Santa Barbara Water Polo Foundation, 2003-2004  
Vice President, South Coast Community Aquatics Center, 2009-

**Member:**

American Historical Association  
Society for the History of Technology  
History of Science Society  
Phi Alpha Theta